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Compressed Seal for a Movable Joint

Abstract of Disclosure

A compressed seal expansion joint for fluidically connecting in a sealed relationship adjacent ends of two conduits adapted for carrying fluids of varying temperatures, said expansion joint comprising telescopically arranged outer and inner pipe members adapted to be connected to each of said conduits, said outer pipe member defining an annular packing chamber opening through its inner surface for containing at least two cylindrical guide rings disposed at opposite ends of said chamber, said rings being of a generally rectangular cross section having their long faces longitudinal to the members axis and selected of an elastic and semi-plastic packing composition pressurized by tensioned hoop bands circumscribing said outer pipe member and selected to elastically deform said outer pipe member and communicate a circumferentially compressive force to said guide rings so as to create bearing and frictional loadings and seal between said guide ring surfaces and said pipe member surfaces during axial and rotational relative pipe member movement.